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Green Resources

April 28, 2016

Low & No-cost Measures

- Operations & Maintenance
- Lighting
- Office equipment
- Heating & cooling
- Communication & education
- Outside help

Operations & Maintenance

- Conduct a night time audit to find out what is on
- Regularly check and maintain equipment
- Revised janitorial practices to reduce hours that lights are on
- Monthly maintenance on heating and cooling equipment
- Visually inspect insulation on piping and ducts

Lighting

- Turn off lights when not in use –saves 10-40 percent
- Maximize daylighting
- Use task lighting
- Implement lighting maintenance
- Remove unnecessary lights (de-lamp)

Office Equipment

- Enable power management function
- Activate sleep settings
- Plug electronics into a “smart” power strip



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Heating & Cooling

- Thermostat setbacks
- Regularly change filters
- Control direct sun through windows
- Clean the evaporator and condenser coils regularly
- Repair leaks

Communication & Education

- Educate employees about how their behavior effects energy use
- Develop an energy team
- Assign responsibilities to pursue energy efficiency in all departments
- Reward energy-efficient behaviors

Outside Help

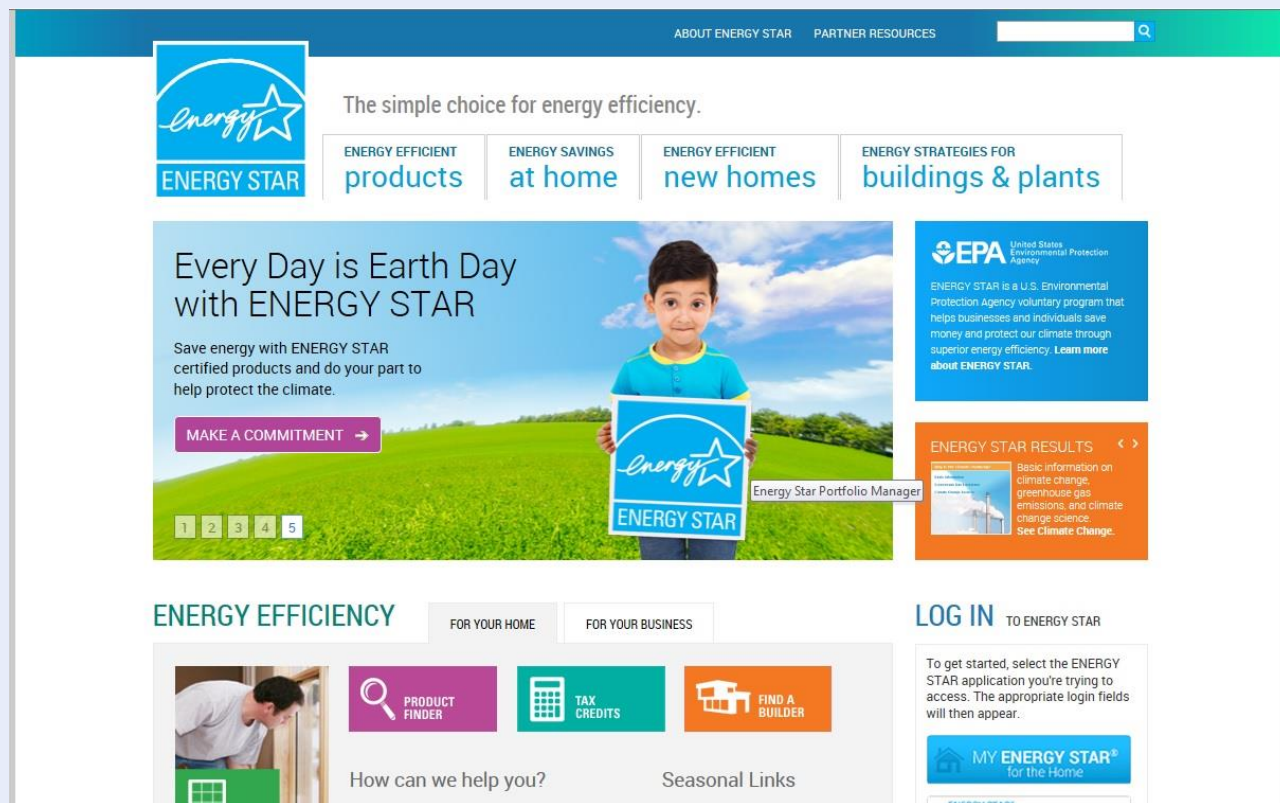
- Use EPA's ENERGY STAR Portfolio Manager
- Use ENERGY STAR Target Finder to integrate efficiency into design of new properties
- Ask your utility if they offer free or inexpensive energy audits
- Ask your utility about rebates

EPA's Energy Star Program

<https://www.energystar.gov/>

Energy Star For:

- Products
- New Homes
- Commercial buildings
- Industrial plants



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Energy Star Portfolio Manager

<https://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager>

- Online tool
- Measure and track energy and water consumption and greenhouse gas emissions

IN THIS SECTION

Learn the benefits

Get started

Use Portfolio Manager

- How Portfolio Manager helps you save
- The benchmarking starter kit
- Identify your property type
- Enter data into Portfolio Manager
- The data quality checker
- How Portfolio Manager calculates metrics
- Interpret your results
- Verify and document your savings
- Share and request data
- Updates to ENERGY STAR scores with CBECS data

Save energy

Find financing

Earn recognition

Communicate your success

Resources for your property type

JOIN MAILING LIST



Sign up to receive updates from ENERGY STAR buildings & plants on Portfolio Manager and program news.



ENERGY STAR®
PortfolioManager®

The most-used energy measurement and tracking tool for commercial buildings.

Use Portfolio Manager

You've heard it before: you can't manage what you don't measure. That's why EPA created ENERGY STAR Portfolio Manager®, an online tool you can use to measure and track energy and water consumption, as well as greenhouse gas emissions. Use it to benchmark the performance of one building or a whole portfolio of buildings, all in a secure online environment.

Not sure if Portfolio Manager is for you? It is!

You can use Portfolio Manager to manage the energy and water use of any building. Seriously. Any building. K-12 school? Check. Office building? Check. Stadium? Check. We could keep going. All you need are your energy bills and some basic information about your building to get started.

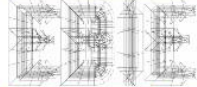
Are you designing a new commercial building? You can also use Portfolio Manager to set your energy use target and see how your estimated design energy stacks up against similar existing buildings nationwide.



Join the rest of the industry.

When you add your buildings, you'll be joining 40 percent of U.S. commercial building

EBIE AWARDS



Celebrating the best in existing buildings

DEADLINE EXTENDED
to April 11!

EBIES.ORG

Portfolio Manager data is required for submissions

Discover the new and improved Portfolio Manager today.

SIGN UP

Current Portfolio Manager Users

username

password

Forgot password?

Forgot username?

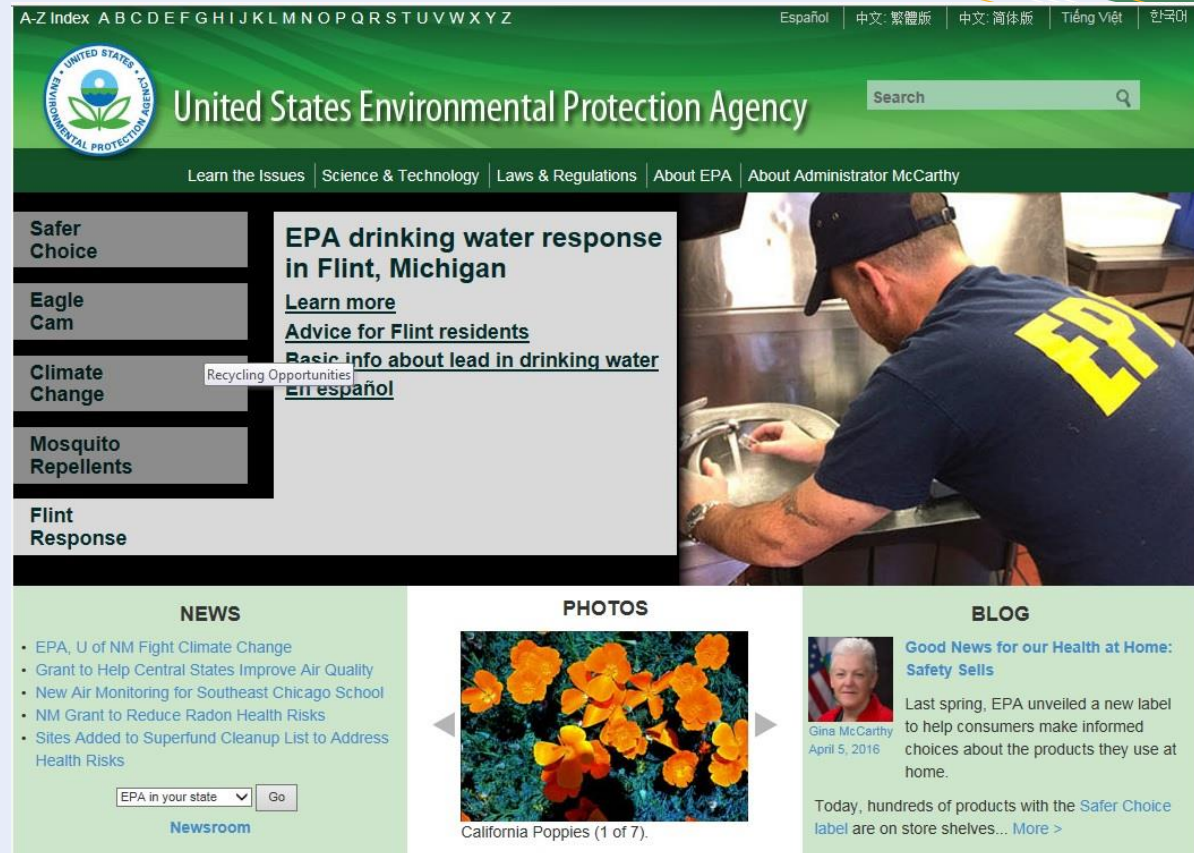
LOG IN

Get help

Other EPA Resource

<https://www3.epa.gov/>

- Learn the Issues – Greener Living
- Science & Technology- Sustainable Practices



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EPA's Green Sports

<https://www.epa.gov/green-sports>

- Benefits
- Success Stories
- Results
- How you can help

Green Sports

Love of sports is something millions of Americans share. Across the country, teams and fans are channeling their enthusiasm into protecting our communities by "greening" sports — saving energy, cutting waste and preventing pollution.

Why Green Your Sport



- [Benefits](#)
- [Success stories](#)
- [Green Sports Results](#)

For Fans



- [How can I help my team?](#)
- [How is my team going green?](#)
- [Teams report results](#)

Measure Your Success



Stadiums, Events & Leagues



- [Save energy/reduce emissions](#)
- [Use greener products](#)
- [Conserve water](#)

For Colleges and Universities



- [Greening sports on campus](#)
- [College recognition programs](#)

Additional Resources



Green Sports on Twitter

#GreenSports



[Embed](#) [View on Twitter](#)

News and Events

[Green Sports Alliance Summit 2015 Videos](#) [Exit](#), June 29 - July 1, 2015.

[Green Sports Alliance Summit 2016](#) [Exit](#), June 28, 2016.

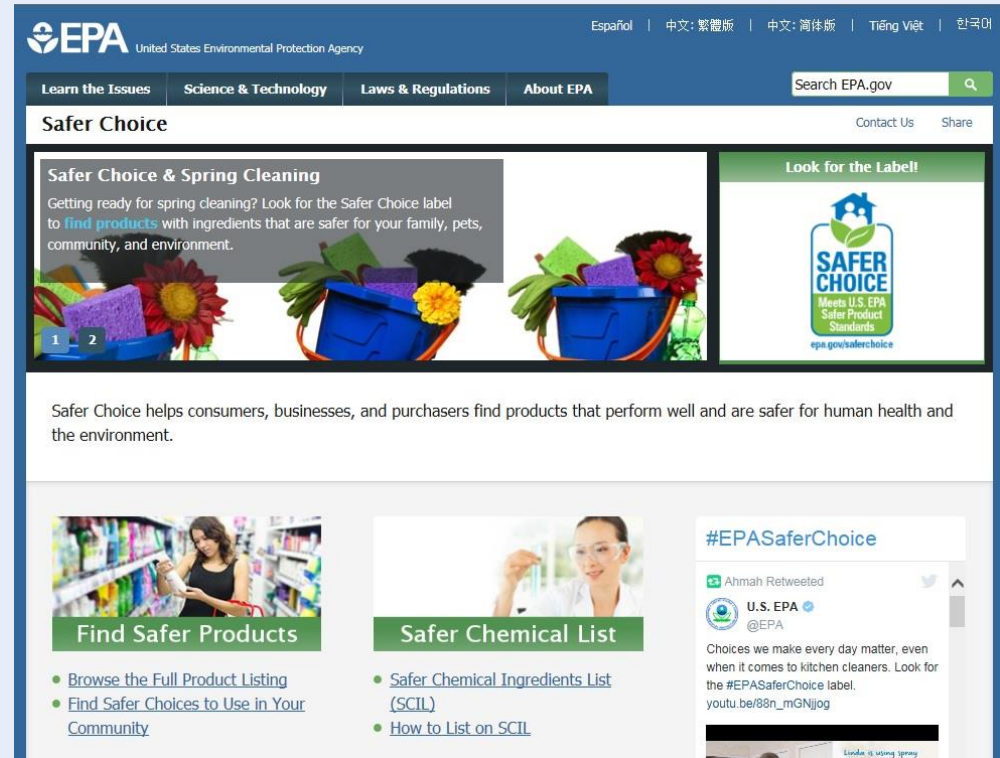
[11 Sports Teams and Leagues That Have Gone Green](#)

[EPA's Food Recovery program at work](#)

EPA's Safer Choice Program

<https://www.epa.gov/saferchoice>

- Find products that are safer to use around people and pets

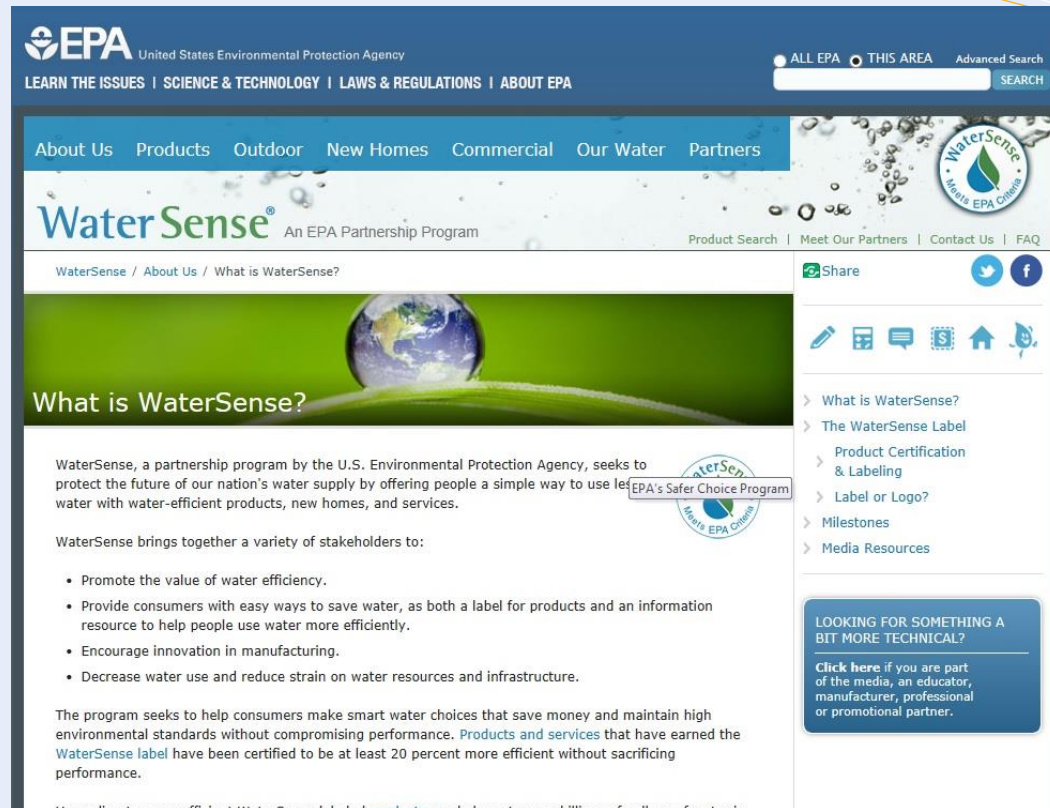


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EPA's Water Sense Program

<https://www3.epa.gov/watersense/>

- Helps consumers make smart water choices
- Certified products are at least 20% more efficient without sacrificing performance

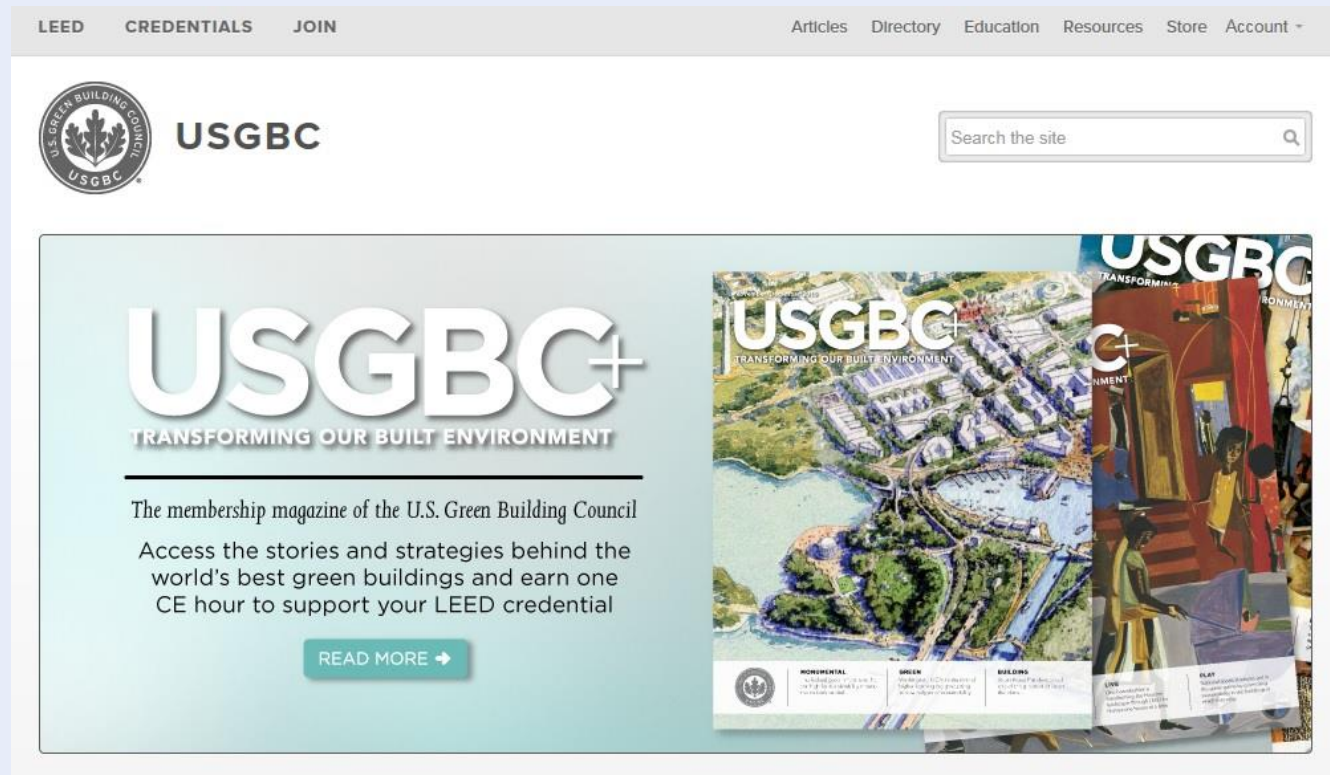


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U.S. Green Building Council

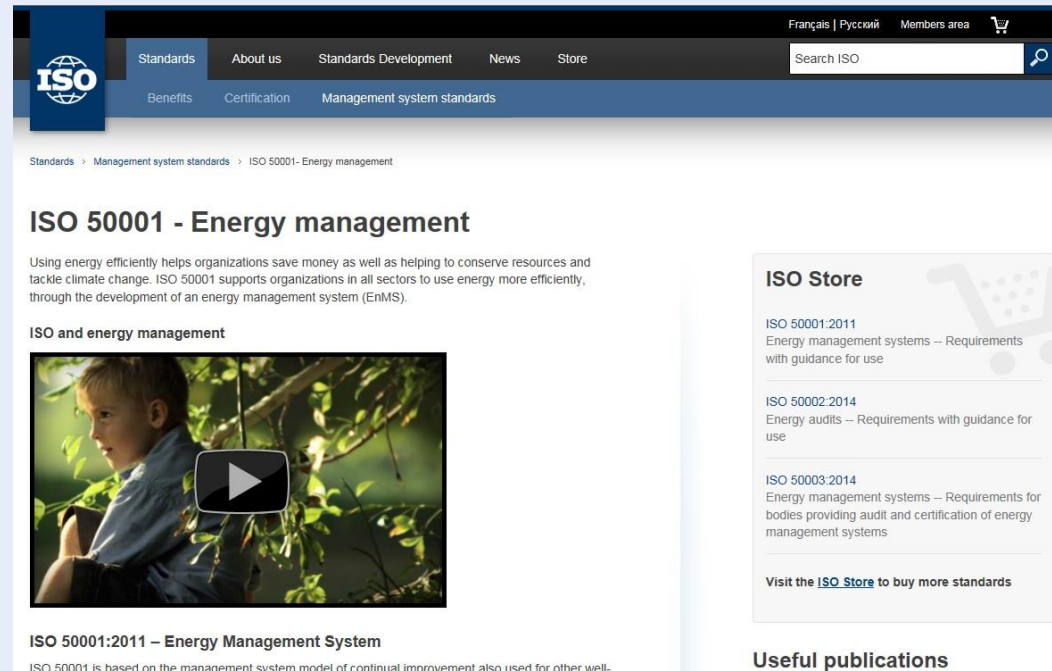
<http://www.usgbc.org/>

- What is LEED
- Steps to be LEED certified
- Resources



Energy Management System

- Develop a energy use policy
- Fix targets and objectives to meet policy
- Use data to make decisions on energy use
- Measure results
- Review the policy, and
- Continually improve energy management



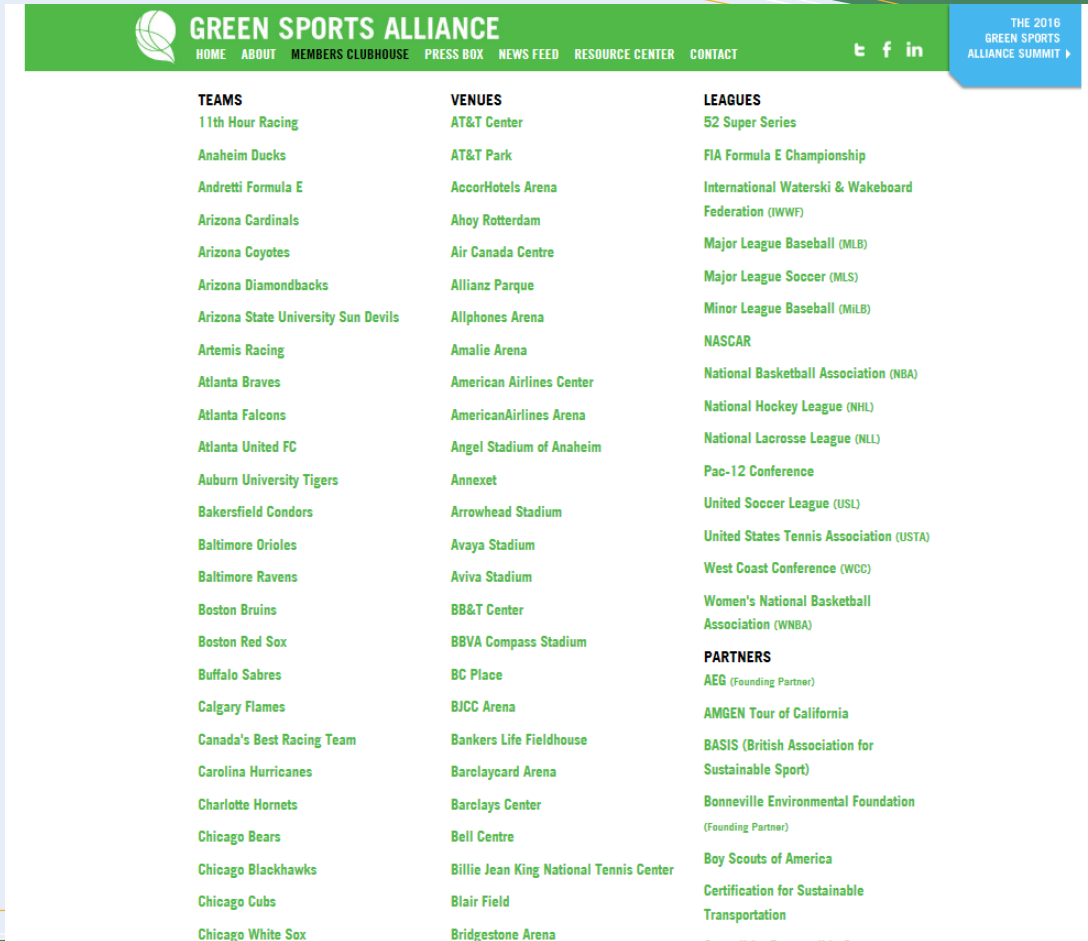
The screenshot shows the ISO 50001 - Energy management page. The header includes the ISO logo and navigation links: Standards, About us, Standards Development, News, Store, Benefits, Certification, and Management system standards. A search bar is also present. The main content area is titled 'ISO 50001 - Energy management' and includes a brief description: 'Using energy efficiently helps organizations save money as well as helping to conserve resources and tackle climate change. ISO 50001 supports organizations in all sectors to use energy more efficiently, through the development of an energy management system (EnMS)'. Below this is a video player with a play button. To the right, there is a sidebar titled 'ISO Store' listing three standards: ISO 50001:2011, ISO 50002:2014, and ISO 50003:2014. At the bottom of the sidebar, it says 'Visit the ISO Store to buy more standards'. Below the video player, there is a section titled 'ISO 50001:2011 – Energy Management System' with a brief description.

<http://www.iso.org/iso/home/standards/management-standards/iso50001.htm>

Green Sports Alliance

<http://greensportsalliance.org/>

- List of Teams, Venues, Leagues & Partners
- Resources
- Past webinars
- Good publicity



The screenshot shows the Green Sports Alliance website. The header is green with the logo and navigation links: HOME, ABOUT, MEMBERS CLUBHOUSE, PRESS BOX, NEWS FEED, RESOURCE CENTER, CONTACT. There are social media icons for Twitter, Facebook, and LinkedIn. A blue box on the right says 'THE 2016 GREEN SPORTS ALLIANCE SUMMIT'. The main content area is divided into four columns: TEAMS, VENUES, LEAGUES, and PARTNERS. Each column lists various sports organizations and venues.

TEAMS	VENUES	LEAGUES	PARTNERS
11th Hour Racing	AT&T Center	52 Super Series	
Anaheim Ducks	AT&T Park	FIA Formula E Championship	
Andretti Formula E	AccorHotels Arena	International Waterski & Wakeboard Federation (IWWF)	
Arizona Cardinals	Ahoy Rotterdam	Major League Baseball (MLB)	
Arizona Coyotes	Air Canada Centre	Major League Soccer (MLS)	
Arizona Diamondbacks	Allianz Parque	Minor League Baseball (MiLB)	
Arizona State University Sun Devils	Allphones Arena	NASCAR	
Artemis Racing	Amalie Arena	National Basketball Association (NBA)	
Atlanta Braves	American Airlines Center	National Hockey League (NHL)	
Atlanta Falcons	American Airlines Arena	National Lacrosse League (NLL)	
Atlanta United FC	Angel Stadium of Anaheim	Pac-12 Conference	
Auburn University Tigers	Annexet	United Soccer League (USL)	
Bakersfield Condors	Arrowhead Stadium	United States Tennis Association (USTA)	
Baltimore Orioles	Avaya Stadium	West Coast Conference (WCC)	
Baltimore Ravens	Aviva Stadium	Women's National Basketball Association (WNBA)	
Boston Bruins	BB&T Center		PARTNERS
Boston Red Sox	BBVA Compass Stadium		AEG (Founding Partner)
Buffalo Sabres	BC Place		AMGEN Tour of California
Calgary Flames	BJCC Arena		BASIS (British Association for Sustainable Sport)
Canada's Best Racing Team	Bankers Life Fieldhouse		Bonneville Environmental Foundation (Founding Partner)
Carolina Hurricanes	Barclaycard Arena		Boy Scouts of America
Charlotte Hornets	Barclays Center		Certification for Sustainable Transportation
Chicago Bears	Bell Centre		
Chicago Blackhawks	Billie Jean King National Tennis Center		
Chicago Cubs	Blair Field		
Chicago White Sox	Bridgestone Arena		

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Sustainable Events Guide

http://www.iso.org/iso/home/news_in dex/news_archive/news.htm?refid=Ref1598

Helps identify negative social, economic and environmental impacts



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Combined Heat & Power

<http://www.epa.gov/chp/>

- What is CHP?
- Benefits
- Am I a candidate?
- Tools

The screenshot shows the EPA's CHP Partnership website. At the top, there's a navigation bar with links for 'Learn the Issues', 'Science & Technology', 'Laws & Regulations', and 'About EPA'. A search bar is also present. The main heading is 'Combined Heat and Power (CHP) Partnership'. Below this, a large banner image of a green field under a blue sky is accompanied by text stating: 'The CHP Partnership seeks to reduce air pollution and water usage associated with electric power generation by promoting the use of CHP.' To the right of the banner is a 'Join the Partnership' section with links: 'About the CHP Partnership', 'Benefits of Joining', 'Steps to Becoming a Partner', 'Meet Our Partners', and 'Already a Partner?'. Below the banner are three columns of links: 'Discover CHP' (including 'What Is CHP?', 'Benefits of CHP', 'CHP Technologies', 'How Do I Calculate CHP Efficiency?', and 'Calculating CHP Emissions Reductions'), 'Project Development' (including 'Is My Facility a Good Candidate for CHP?', 'Project Development Steps', and 'Policies and Incentives - cCHPP'), and 'Tools and Resources' (including 'Documents and Tools', 'Webinars and Presentations', and 'Energy Star CHP Awards'). At the bottom, a 'Contact Us' link is provided with the text 'Contact Us to ask a question, provide feedback, or report a problem.' The footer includes social media icons and the EPA logo.

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Food Recovery Challenge

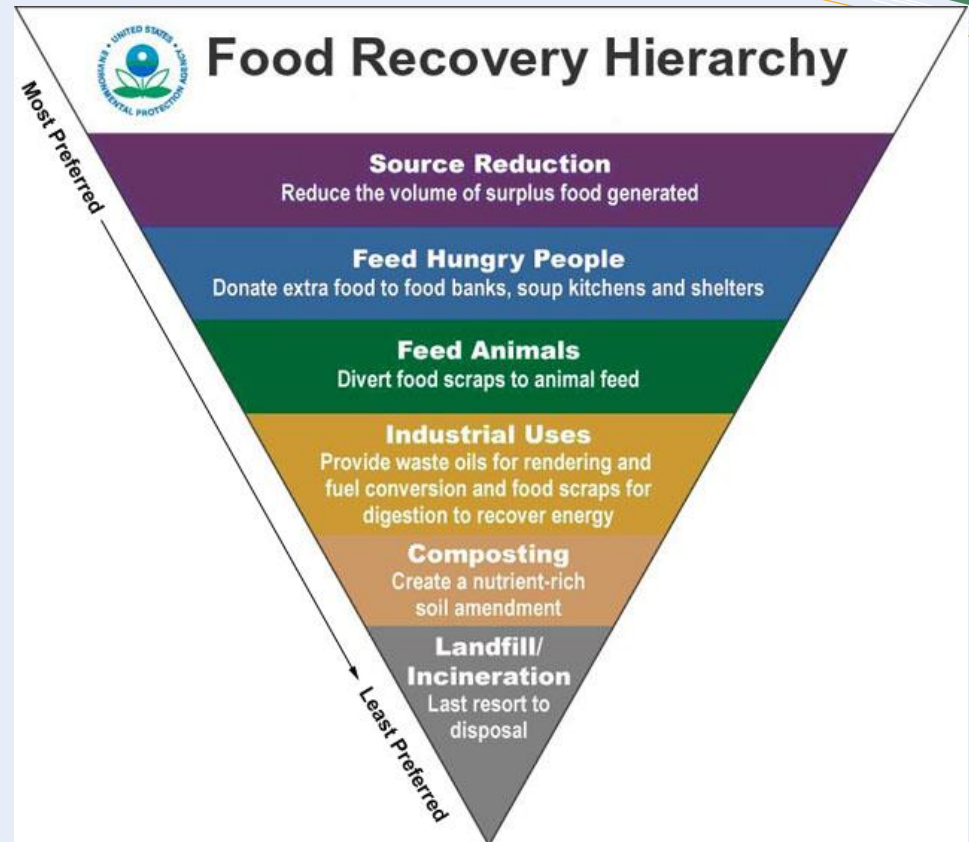
<https://www.epa.gov/sustainable-management-food/food-recovery-challenge-frc>

Anyone can participate.

Participants prevent and divert wasted food in their operations.

Benefits

- Reduce environmental footprint
- Feed the hungry
- Save money
- Recognition
- Assistance



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Contact Information

If you have questions or want more information about the KY EXCEL program, contact John Eisiminger at 800-926-8111 or john.eisiminger@ky.gov.

Please visit our website at:
<http://dca.ky.gov/Pages/default.aspx>.